Figure 1

Figure 2

```
                    ┌─────────┐
                    │  Start  │
                    └────┬────┘
                         │
              S10        │                              S20
           ◇─────────◇   │                         ◇──────────◇
          ╱  Built-in  ╲ │    NO                  ╱  External  ╲      NO
         ◇    button?    ◇──────────────────────◇   input       ◇────────┐
          ╲             ╱                         ╲ information? ╱         │
           ◇─────────◇                             ◇──────────◇        ┌──┴──┐
               │ YES                                    │ YES        │ End │
               │                                        │            └─────┘
               │                                   ◇──────────◇
               │              YES                 ╱  External  ╲  S25
               │         ┌─────────────────────◇   keyboard     ◇
               │         │                       ╲  connected?  ╱
               │         │                        ◇──────────◇
               │         │                             │ NO
               │    S40  │                             │
               │    ◇────────◇                         │
               │   ╱ Matches   ╲    NO                 │
               │  ◇   preset     ◇────────┐            │
               │   ╲ information?╱         │            │
               │    ◇────────◇          │            │
               │         │ YES  S50        │            │
               │    ┌────┴──────┐          │            │
               │    │ Convert into│        │            │
               │    │built-in button│      │            │
               │    │ information │        │            │
               │    └─────┬──────┘    ┌────┴────────────┴──┐
               │          │           │ Transfer external   │
               │    ┌─────┴──────┐    │ information to       │ S30
               │    │  Report to  │S60│ application program  │
               │    │  firmware   │    └─────────┬──────────┘
               │    └─────┬──────┘              │
               │          │                ┌────┴────┐
               └──────────┘                │   End   │
         ┌──────────────────┐              └─────────┘
         │Action in accordance│ S70
         │with input into     │
         │built-in button     │
         └────────┬──────────┘
              ┌───┴───┐
              │  End  │
              └───────┘
```

Start

S10 Built-in button? → NO → S20 External input information? → NO → End

S10 Built-in button? → YES → S70 Action in accordance with input into built-in button → End

S20 External input information? → YES → S25 External keyboard connected?

S25 → YES → S40 Matches preset information?

S25 → NO → S30 Transfer external input information to application program → End

S40 Matches preset information? → NO → S30

S40 Matches preset information? → YES → S50 Convert into built-in button input information → S60 Report to firmware → S70
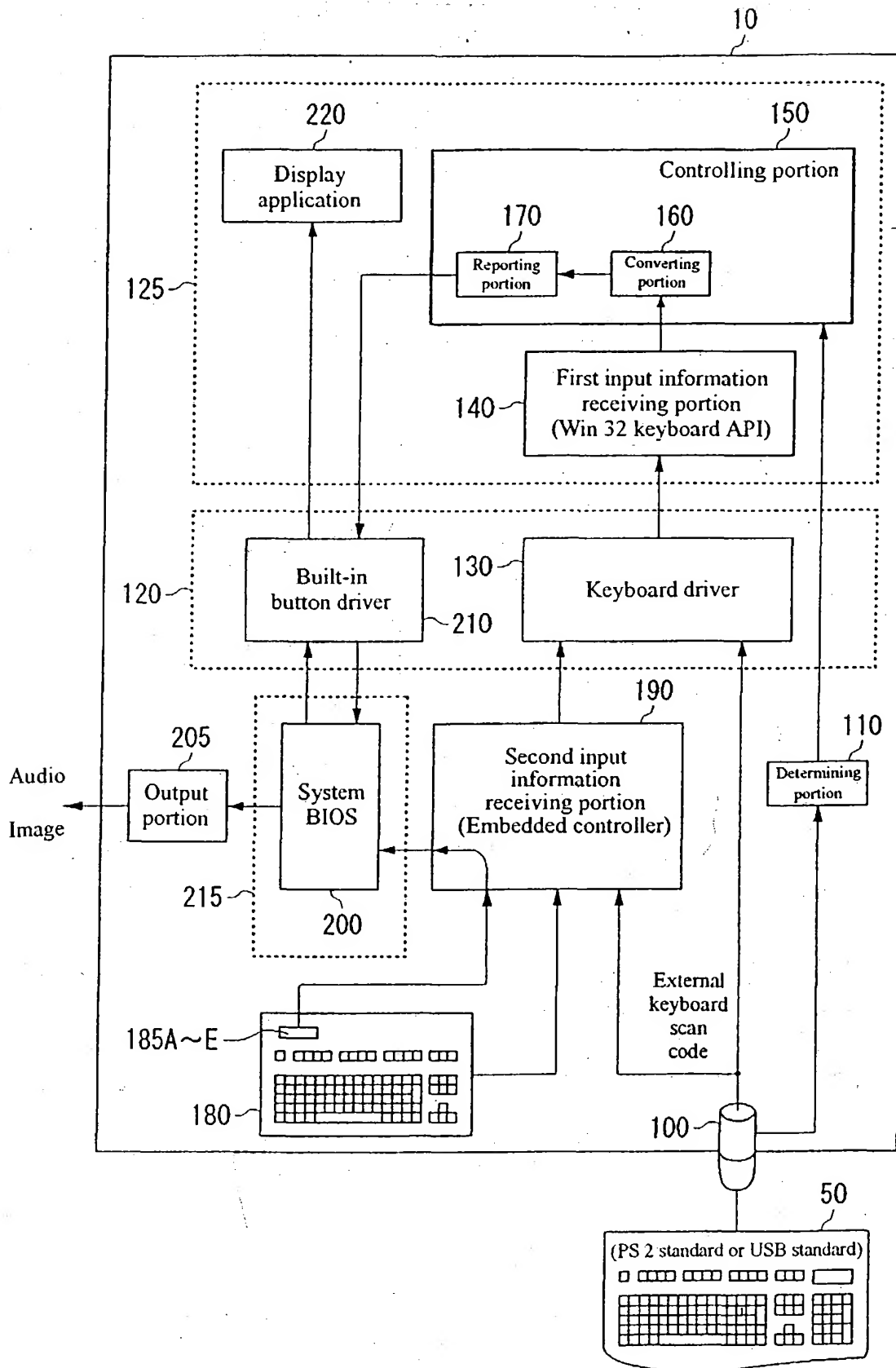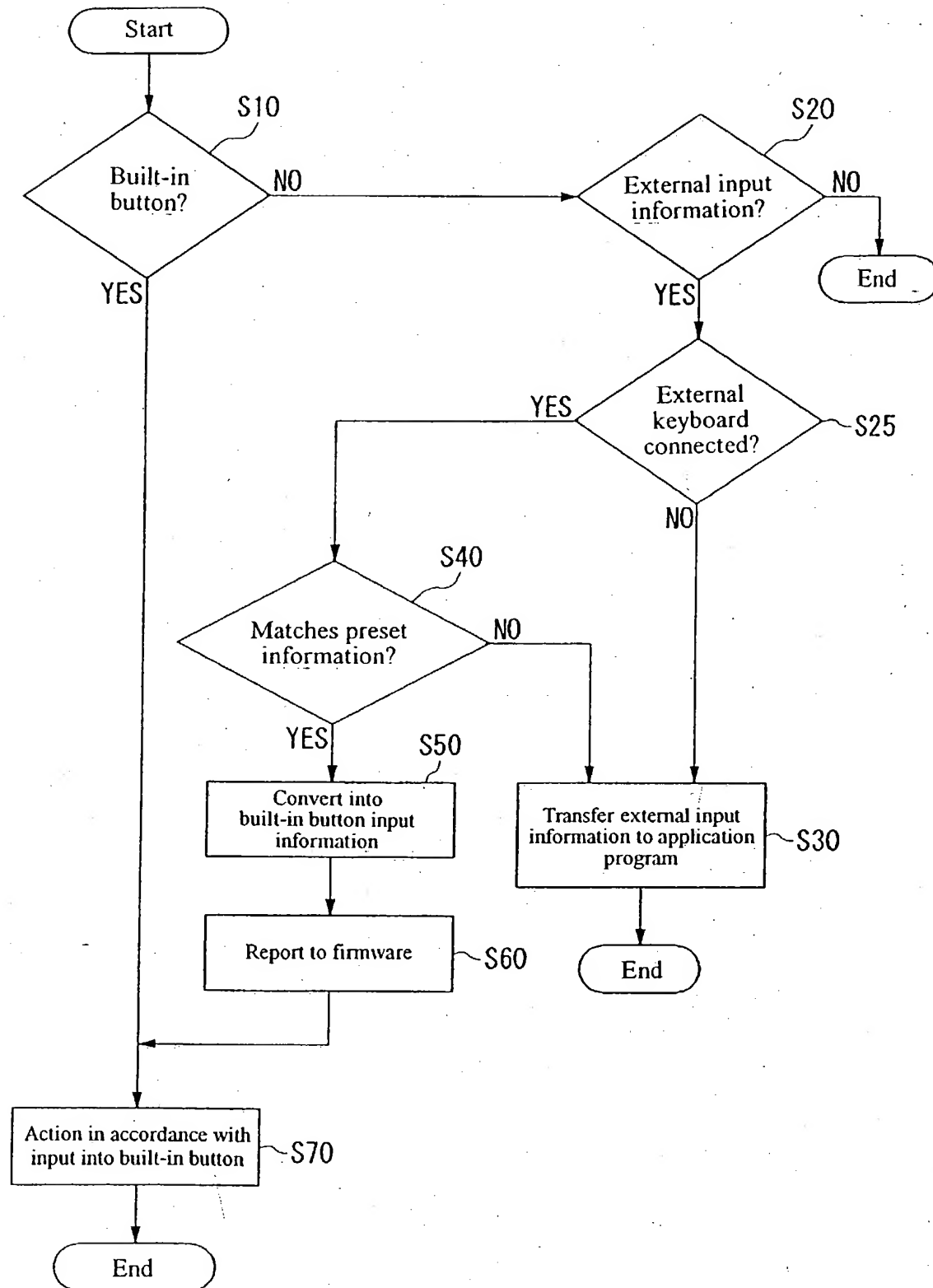
Figure 3

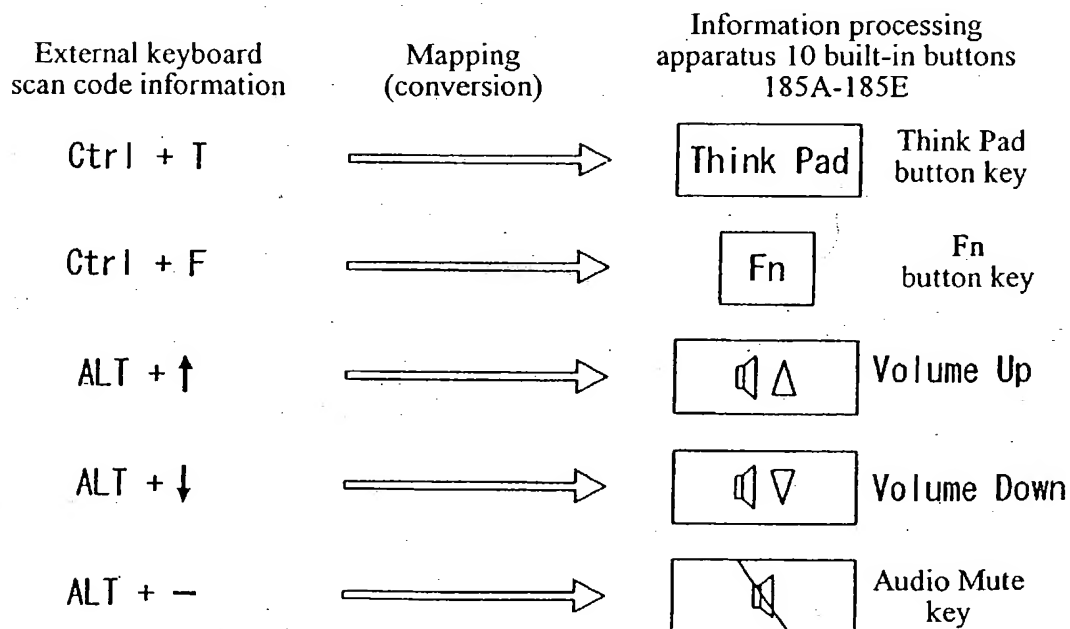| Built-in button driver API entry point	External keyboard scan code information
Built-in button number 1 (Argument 1)	E0 01 3D (ALT+M)
Built-in button number 2 (Argument 2)	E0 01 3F (ALT+D)
Built-in button number 3 (Argument 3)	E0 01 3E (ALT+U)
Built-in button number 4 (Argument 4)	E0 01 2f (CTR+K)
⋮	⋮

Figure 4

External keyboard scan code information	Mapping (conversion)	Information processing apparatus 10 built-in buttons 185A-185E	
Ctrl + T	⟹	Think Pad	Think Pad button key
Ctrl + F	⟹	Fn	Fn button key
ALT + ↑	⟹	◁△	Volume Up
ALT + ↓	⟹	◁▽	Volume Down
ALT + —	⟹	◁	Audio Mute key

Figure 5

Label	Component
10	
1000	CPU
1020	RAM
1010	ROM
1040	Hard disk drive
1060	CD-ROM driver
1050	FD driver
1082	Host controller
1084	I/O controller
190	Embedded controller
1075	Graphic controller
1080	Display device
1030	Communication I/F
1095	
1090	
185A~E	
180	
100	
50	PS2 or USB standard

Network

PS2 or USB standard